

**AMENDMENTS TO THE ABSTRACT**

Please replace the Abstract of the Disclosure currently of record with the attached new Abstract of the Disclosure. The changes to the Abstract are indicated below:

A time management section (27) is configured to change an output voltage ( $V_E$ ) in accordance with a temperature change characteristic of a lamp (11) allowed to cool down. For restart of the lamp (11) after the turn-off of the lamp (11), the lamp (11) is cooled by a fan (5) before the operation of turning on the lamp (11) when it is judged that the temperature of the lamp (11) is higher than a predetermined value, based on the output voltage ( $V_E$ ) from the time management section (27). The lamp (11) is immediately turned on without the cooling of the lamp (11) by the fan (5) when it is judged that the temperature of the lamp (11) is lower than the predetermined value.

**ABSTRACT**

A time management section is configured to change an output voltage in accordance with a temperature change characteristic of a lamp allowed to cool down. For restart of the lamp after the turn-off of the lamp, the lamp is cooled by a fan before the operation of turning on the lamp when it is judged that the temperature of the lamp is higher than a predetermined value, based on the output voltage from the time management section. The lamp is immediately turned on without the cooling of the lamp by the fan when it is judged that the temperature of the lamp is lower than the predetermined value.